

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An AAL2 switch for multicast ~~in a mobile communication system~~, comprising:

a plurality of receiver circuits each receiving and demultiplexing an AAL2 packet for converting into at least one ~~CPS~~ common part sublayer (CPS) packet;
a plurality of memories ~~that~~ configured to store said at least one CPS packet;
and

a plurality of transmitter circuits each coupled to the plurality of memories that search the plurality of memories, convert the searched CPS packet into an AAL2 packet by multiplexing, and transmit the AAL2 packet, wherein at least one memory stores an indication that said at least one CPS packet is to be output by two or more transmitter circuits.

2. (Currently Amended) The AAL2 switch for multicast of claim 1, comprising:

a first table coupled to each of the plurality of receiver circuits, for managing ~~VPVC, CID~~ virtual path virtual channel (VPVC), channel identifier (CID) and routing information; and

a second table coupled to each of the plurality of transmitter circuits, for managing storing conversion information including the VPVC and the CID.

3. (Currently Amended) The AAL2 switch for multicast of claim 1, wherein a new ~~VPVC~~ virtual path virtual channel (VPVC) and a routing information for the transmitted AAL2 packet are allocated based on a VPVC and a ~~CID~~ channel identifier (CID) in the received AAL2 packet.

4. (Original) The AAL2 switch for multicast of claim 3, wherein said at least one CPS packet and a new VPVC are stored according to the routing information.

5. (Original) The AAL2 switch for multicast of claim 1, wherein each of the memories is divided into storage areas each corresponding one of a plurality of output ports.

6. (Original) The AAL2 switch for multicast of claim 5, wherein each of the storing areas includes a memory status field, a copy port field, and a port area.

7. (Currently Amended) The AAL2 switch for multicast of claim 6, wherein the port area is included equal in number to the plurality of output ports, and wherein the memory status field can discriminate whether the CPS packet is stored.

8. (Currently Amended) The AAL2 switch for multicast of claim 6, ~~wherein the memory status field can discriminate whether the CPS packet is stored~~ wherein a subset of transmitter circuits transmit said AAL2 packet for multicast responsive to said indication, and wherein said received AAL2 packet is received by a single receiver circuit.

9. (Currently Amended) The AAL2 switch for multicast of claim 6, wherein the copy port field can discriminate ~~an~~ the subset of transmitter circuits correspond to output ~~port~~ ports to which said at least one CPS packet is designated.

10. (Original) The AAL2 switch for multicast of claim 1, wherein the transmitter circuits each performs the searching process according to values set in a memory status field in the plurality of memories.

11. (Original) The AAL2 switch for multicast of claim 10, wherein the transmitter circuits perform the searching process according to values set at a copy port field.

12. (Currently Amended) The AAL2 switch for multicast of claim 1, wherein when said at least one CPS packet is searched, the transmitter circuits generate a new ~~CID~~ channel identifier (CID) for the searched CPS packet by using a new ~~VPVC~~ virtual path virtual channel (VPVC).

13. (Currently Amended) A switching method of an AAL2 switch for multicast ~~in a mobile communication system~~, the method comprising:

converting a received AAL2 packet into a ~~CPS~~ common part sublayer (CPS) packet by demultiplexing the received AAL2 packet;

generating a new ~~VPVC~~ virtual path virtual channel (VPVC) and routing information based on VPVC and ~~CID~~ channel identifier (CID) in the received AAL2 packet;

storing the CPS packet and the new VPVC according to the routing information in at least one of a plurality of storage areas in a memory;

extracting the CPS packet by searching the plurality of storage areas; and

transmitting an AAL2 packet by converting the extracted CPS packet into an AAL2 packet and transmitting the AAL2 packet, wherein at least one memory stores an indication that said at least one CPS packet is to be output by two or more transmitter circuits, and wherein a subset of transmitter circuits transmit said AAL2 packet for multicast responsive to said indication, and wherein said received AAL2 packet is received by a single receiver circuit.

14. (Original) The switching method of claim 13, wherein the converting through transmitting steps are repeatedly performed whenever the received AAL2 packet is inputted.

15. (Original) The switching method of claim 13, wherein a memory status field of the storage area indicates whether the CPS packet is stored.

16. (Original) The switching method of claim 13, an output port where the CPS packet is sent is indicated in a copy port field of the storage area.

17. (Original) The switching method of claim 13, wherein the CPS packet and the new VPVC information is stored in at least a port area of the storage area.

18. (Original) The switching method of claim 13, wherein if the CPS packet is extracted, a new CID is generated by using a new VPVC.

19. (Currently Amended) A switching method of an AAL switch for multicast ~~in a mobile communication system~~, the method comprising:

converting a received AAL2 packet into a ~~CPS~~ common part sublayer (CPS)
packet by demultiplexing the received AAL packet;
storing the CPS packet according to a routing information;
converting the stored CPS packet into an AAL packet, wherein the stored
CPS packet contains a field configured to indicate multicast transmission using a two or
more of a plurality of output ports of the AAL switch; and
transmitting the AAL packet to a plurality of different destinations using
said two or more output ports according to said field.

20. (Currently Amended) The switching method of claim 19, wherein the
routing information is generated based on a ~~VPVC~~ virtual path virtual channel (VPVC)
and a ~~CID~~ channel identifier (CID) of the received AAL packet, and wherein a new
VPVC is generated and stored based on the VPVC and the CID.

21. (Currently Amended) The switching method of claim ~~20~~, ~~wherein a new~~
~~VPVC is generated and stored based on the VPVC and the CID~~ 19, wherein the received
AAL2 packet is received through a single one of a plurality of input ports of the AAL2
switch.

22. (Original) The switching method of claim 19, further comprising periodically searching for a memory status field and a copy port field corresponding to each of a plurality of output ports.

23. (Original) The switching method of claim 22, wherein the converting the stored CPS packet into the AAL packet extracts the corresponding to an output port where the CPS packet is allocated by the periodically searching.